

WHAT IS CLAIMED IS:

1. An OFDM receiver for receiving and demodulating OFDM signal, the receiver comprising:

5 an automatic gain adjuster for adjusting the level of OFDM signal;

a demodulator for demodulating a level-adjusted signal outputted from the automatic gain adjuster;

a detector for detecting guard intervals contained in the OFDM signal; and

a controller for controlling the automatic gain adjuster within the periods of

10 guard intervals detected by the detector.

2. An OFDM receiver according to claim 1, wherein the controller issues an instruction for level adjustment to the automatic gain adjuster, said issuance being performed within respective periods of a plurality of guard intervals detected by the
15 detector.

3. An OFDM receiver according to claim 1, wherein the controller counts the number of guard intervals detected by the detector, and issues an instruction for level adjustment to the automatic gain adjuster once a counted value arrives at a
20 predetermined number.

4. An OFDM receiver including a detector for detecting a level change of an OFDM signal and an automatic gain controller for adjusting the level of the OFDM signal in accordance with a signal level detected by the detector, the receiver
25 further comprising:

a controller for determining an actual signal receiving condition in accordance with a change in the signal level detected by the detector, and for

setting gain control conditions of the automatic gain controller in accordance with a result of determination of an actual signal receiving condition.

5 5. An OFDM receiver according to claim 4, wherein the controller stores as history data an average value of previous level detection results, and uses the history data to determine a present signal receiving condition.

6. An OFDM receiver according to claim 4, wherein the controller determines an actual signal receiving condition in each predetermined period.

10 7. An OFDM receiver according to any one of claims 4 to 6, wherein the controller detects at least one of gain control period, level detection period, level control range for gain control and gain control amount.

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